MEEM Newsletter
A joint publication by MEEM students, faculty & staff
Volume 1, Number 4: April 13, 2004

ALUMNI PROFILE:
MEEM Academy inducts a super trio

MEEM Department will be inducting three distinguished alumni to
Academy on April 24. The purpose of the Academy is to honor outstanding
graduates of MTU Department of MEEM. Selection into the Academy
recognizes excellence and leadership in engineering and civic affairs.
This induction honors some of the most successful of the more than
nine thousand mechanical engineering and engineering mechanics alumni of Tech. Portraits
and a brief biography of Academy members are prominently displayed
in the MEEM Building to serve as inspirational role models for future
mechanical engineering and engineering mechanics students.

From left to right: Zbib
Hussein M. Zbib earned a BS in
Mechanical Engineering in 1981, an
M.S. in Mechanical Engineering in
1983 and a PhD in Mechanical
Engineering-Engineering Mechanics in
1987 all from Michigan Tech. Hussein is currently Interim Director and
Professor of the School of Mechanical and Materials Engineering at Washington State
University. Zbib is a Fellow of ASME in 2001 for
exceptional engineering achievement and contributions to the engineering
profession. Other awards include the 1994 Research Excellence Award from the College of Engineering at
WSU, the Next Research Initiation Award, and a NATO Fellowship. He is very active professionally as an Associate Editor of ASME Journal of Engineering Materials and Technology, member of the Advisory
Board of the International Journal of Plasticity, and member of the Board of Review of Metallurgical and Materials Transaction. As of 2000, his publication record includes five edited books and over 100 technical articles. He and wife, Maria, reside in Pullman, WA.

Eric A. Nielsen earned his BS degree in Mechanical Engineering in 1980 at Michigan Tech and went on
to earn his MBA from the University of Chicago in 1988. After graduating from Tech he started as a consulting
engineer with Hazard Engineering in Morton Grove, IL until 1983. He then
worked for several companies before joining Volvo Construction Equipment (CE) Parts in Sweden as
Senior Vice President – Business Control and Information Systems in 1994.
From 1997-1998 he was Chief Financial Officer of WECO Metals in
Illinois. In 1998 he became Chief Financial Officer of Volvo CE Korea. In 2000 he assumed his current
position of President and CEO of Volvo Excavators and Volvo CE Korea. Eric has received several prestigious awards including the Presidential Award for Manufacturing Based Technology. He is an active
donor/Board member for Habitat for Humanity, Korea. Eric has reestablished his connection to Michigan Tech through
providing internships, supporting senior design and enterprise. Eric and his family live in Seoul, South Korea.

James L. Reum graduated from Michigan Tech University in 1953
with a BS in Mechanical Engineering and later earned an MBA from Xavier
University. Jim started his career in 1957 at General Electric (GE) as a
process control engineer. From 1966-1990 he was self-employed as a
management and engineering consultant to companies in the aerospace
industry. In 1990 he joined Jet Avion Corp, a subsidiary of HEICO, as an Associate Director of Research and Development. He has served as
Chief Operating Officer of HEICO from 1995 to 1999. Jim became Executive Vice President of HEICO Aerospace from 1993 until he retired from full-time service in 2001. In 2001 HEICO
salaries were $171.3 million with 1,012 employees. In 2001, Jim and Ann
established the James and Ann Reum Endowed Scholarship at MTU
to recognize undergraduate students majoring in mechanical engineering. Jim has been active in community
and charitable groups such as the Chamber of Commerce and the
United Appeal Fund. He and Ann have three grown children and live in
Plantation, Florida.

FEATURES
Announcements
Faculty & Staff Profile
Alumnus Profile
Student Success Center
Friends of MEEM

Publisher: Director of Student Success Center
Editor: Dr. Peck Cho
Asst. Editor: Paula Zenner, MEEM Dept.

MEEM Newsletter is a published by
Student Success Center to promote
a sense of community for MEEM. It
is a joint effort of faculty, staff and
students of MEEM volunteering their
time, effort and creativity.
Please send your comments and
contributions (news) to
peckcho@mtu.edu.

ANNOUNCEMENTS
April 15-16
Presidential Council of Alumnae Induction
Tanya Klaen, ’90 BSME
April 22 all day
Senior Design Day
Poster session
(MUB & Cuskie Design & Creativity Center)
Oral presentations
(MEEM 111, 112, & 1021)
April 22 6 p.m.
Senior Recognition Banquet
7:30 p.m.
Order of the Engineer Ceremony
Guest speaker – Dr. Diana Brehob, Ford
Rozsa Center
April 21 – 24
Industry Advisory Committee meeting
April 24 5 p.m.
Induction Ceremony of MEEM Academy

MY FAVORITE CLASS:
“SENIOR DESIGN DAY”

Senior Design Day will be held on
Thursday, April 22, 2004. The day’s
activities will include a booth for K-Day, a
freshmen volleyball game, and
an event for Spring Fling.
A side note to all first year students:
Finals are coming and that
means lots of studying but don’t
forget to have fun, too.

FAB CORNER
By Nick Link
FAB’s input has helped the
department and university make
several good adjustments for the
new first year students in the fall.
You, FAB members, should be
proud of your achievement. The steering
committee has decided to stay on as
advisors for the incoming freshmen
in the fall and help guide the new
students in their first year.
FACULTY/STAFF PROFILE:
By Eric Losiewicz

Haut-Donahue

Although Biomedical Engineering students probably know her better because of her research in knee injury and repair, Dr. Tammy Haut-Donahue is an exciting member of the MEEM department. This is her third year at Michigan Tech and she currently teaches Bio Mechanics and works with four senior design teams.

“I really like the variety of the senior design program since every semester there is something new to work on,” said Tammy referring to what she likes most about teaching here. She adds that “this is my first real job so everything is new and I’m always meeting new people.”

Tammy received her B.S. in Mechanical Engineering at Michigan State University and M.S. and PhD. in Biomedical Engineering at University of California-Davis. She then went to Penn State to do post doctoral work in molecular biology in an orthopedics department specializing in diagnosis, treatment, and prevention of injuries and diseases of body’s musculoskeletal system.

When her husband first mentioned the idea of moving back to Michigan, Tammy was hesitant, “I didn’t want to go back to Michigan, Michigan to me was flat, gray and boring.” Of course Tammy had never been to the U.P. Also, a small town was a plus. “We really wanted to live in a small town after living in large cities like East Lansing and Davis California all our lives.”

When asked what experiences she has enjoyed the most so far she replied, “I enjoy being able to know all my students by name, and getting to know them on a personal basis. It was kind of shocking at first coming from big schools like Michigan State, for example, where there are so many students and the faculty are really hard to find and then come here and run into my students at the grocery store, or at the park, or where we go out to dinner…..The small town atmosphere has been very enjoyable.”

In her spare time Tammy enjoys water skiing and down hill skiing. Since having two kids she hasn’t been able to take advantage of the downhill opportunities here at Tech, “Right now me and my husband do a lot of snowshoeing because we can just strap the kids on our back and go, but as soon as the kids are big enough we’ll be hitting the slopes again.” Tammy and her husband also enjoy hiking and backpacking. To learn more about Tammy and her research, check out her website at:
http://www.me.mtu.edu/~thdonahu/

ENTERPRISE UPDATE:
By Jacob Losillevh and Kyle Lyngstad

In this particular day and age, security concerns are prevalent in the minds of Americans. This tendency, brought to public awareness through the Homeland Security Act, has created a viable market for security-related technologies. This market is the focus of the Blue Marble Security Enterprise, a new and rapidly expanding enterprise here at Michigan Tech.

Blue Marble Security became an official enterprise just this Spring semester, though it had beginnings in the Fall. The program is an official offshoot of the Wireless Communications Enterprise, and was founded by a grant from David House, a Tech alumni interested in preserving the prestige of the school and particularly that of the EE department.

Dr. president, 4th year EE John Kopinski, said that “The major goal of our enterprise is to make money for the students…whether it’s bringing in research or development contracts.”

The most Mechanically-oriented project of Blue Marble is the ROV, (remote operated vehicle) project. The aim is to design a remotely-operated underwater vehicle for searching and information-gathering beneath the surface. They also have a UAV (unmanned aerial vehicle) project and disaster response project underway.

Blue Marble’s program is especially useful for Mechanical Engineers due to its wide variety of majors to which it caters. It is a very good opportunity and practice with interaction to other disciplines, especially Electrical Engineering, which often goes hand-in-hand with Mechanical Engineering in the workplace.

So, whether you’re seeking a challenging project where you’ll be working side-by-side with engineers from other disciplines, trying to verse yourself in all the EE jargon, or just looking for a fun time designing very innovative systems, check out the Blue Marble Security enterprise.

For more information, you can contact the management list at blueorg@mtu.edu.

You can also visit their website, www.enterprise.mtu.edu/bluemeble

FRIENDS OF MEEM:
Industry Advisory Board

The Industrial Advisory Committee is a select group of corporate leaders (primarily Michigan Tech alumni) that provide insight and input to the department. They meet twice a year on the Michigan Tech campus. While on campus they hear an update on the students, faculty and staff on various issues, get updates on graduare and research programs, operations and management, advancement and distance learning to name a few. Their primary role is to see that the activities of the department continue to be in step with industry insuring that the department’s students, both undergraduate and graduate, are prepared to perform well in their chosen field. The current members are:

RON BROWN
Executive Vice President
Livingston & Company, Inc.

TOM CLARK
Division Manager, Caterpillar Inc.

WILLIAM S. COOPER
Managing Director, Interiors
Visteon Corporation

ROGER L. DEWITT
Manager, Engine Product Programs
John Deere Power Systems

ALAN R. FRANK
Manager, Fabric Care Rehab Lab
Whitepool Corporation

BRIAN S. HENRIKSEN
V.P., Manufg, Reliability and Quality
Navistar Internati Truck & Engine Corp.

MICHAEL V. HOFMAN
Manager Compact SUV Powertrain Prg
Ford Motor Company

PAUL W. JONES
American Axle and Manufacturing

DAVID M. KIMBALL
General Product Manager
DaimlerChrysler Corporation

JOHN M. LEINONEN, P.E.
President, Exponent

BRENDA MOYER-KOCHAN
Director, Technical Resource Park
Dana Corporation

LEIGH OTTERLEI
3M Corporation

PETER P. SANDRETO
Senior Manager, Vehicle Certification
DaimlerChrysler Corporation

JOHN F. SCHWEICKERT
Executive Director, Mgmt
General Motors Powertrain Group

ADIL SHAFI
President, Shafi Inc.

FREDERIC C. SHERIFF
V.P. of Operations and Systems
Kraft Foods, Inc.

SANDRA SKINNER
Chief Engineer Electrical Systems
Ford Motor Company

MICHAEL SMABY
Senior Project Engineer
Kelly-Bark Corporation

RICK SMITH
Director, Climate Control Engineering
Denso International America, Inc.

MARTHA SULLIVAN
V.P. and General Business Manager
Texas Instruments Incorporated

TIMOTHY N. THOMAS
General Manager
PARTSolutions LLC

CAMEL E. THORREZ
President, C. Thorrez Industries

GEORGEY R. WELLER
Asst. Plant Manager
General Motors Corporation

JEFF ZAVISZA
Scientist, Dow Chemical Corp

JOHN M. LEINONEN, P.E.
President, Exponent

STUDENT SUCCESS CENTER:
Engineering Learning Center (2nd floor of MEEM) started serving popcorn to the center users on every Wednesday afternoon as a mid-week relief from the routine.

How do you spell relief? P-O-P-C-O-R-N

Headache?

Feel helpless?

Come to ELC For mid-week relief!

Korine Stas is an Engineering Learning Center coach